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(54) COMPOSITE CATALYST FOR PURIFICATION OF **EXHAUST GAS**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a composite catalyst for purification of exhaust gas exhibiting high NOx purification capability and excellent durability.

SOLUTION: A composite catalyst 4 consists of the first catalyst part 5 with an Ir catalyst, and the second catalyst part 6 covering the first catalyst part 5 and having a perovskite type double oxide. The perovskite type double oxide mainly contributes to such an oxidation reaction as $NO+O_2\rightarrow NO_2$ and on the other hand, the Ir catalyst is mainly a reducing agent for HC (hydrocarbons). It contributes to such a reduction reaction as $NO_2+HC+O_2\rightarrow N_2+CO_2+H_2O$.

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